

RESTORED CROSS SECTION

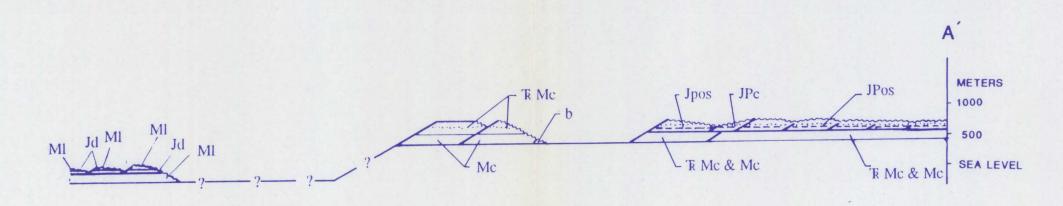
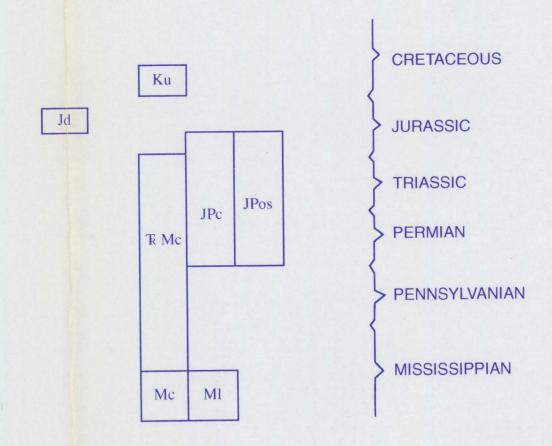


FIGURE 4. Geologic map, cross section, and retrodeformed cross section of the Abby Creek barite deposit.

CORRELATION OF MAP UNITS

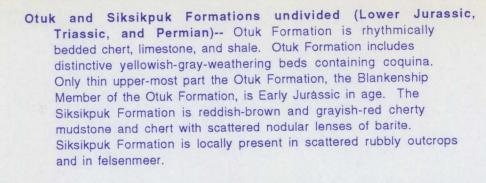


DESCRIPTION OF MAP UNITS

JPos

Ku	Sandstone, conglomerate, and mudstone (Lower Cretaceous) Greenish-gray chert lithic wacke, granule conglomerate, and mudstone. Locally present as thin selvages of strata that unconformably overlie Lower Jurassic and older rocks in thrust sheets.

d	Diabase (Ju	rassic ?)	Dark-gray	coarse-	to very	coarse graine	u
4	gabbro.	Present in	sills that in	trude Miss	issippian	limestone.	



Chert and Otuk and Siksikpuk Formations undivided (Lower Jurassic?, Triassic. and Permian)-- Yellowish-green, greenish-gray, and very light gray rhythmically bedded chert and yellowish-gray to very light gray-weathering very cherty limestone and chert. The shale unit of the Otuk Formation, recognized elsewhere, is not recognized among these rocks.

Upper chert of the Cutaway area (Triassic, Permian, Pennsylvanian, and Mississippian)-Rhythmically bedded greenish-gray and light-medium-gray radiolarian ribbon chert. These rocks include strata lithologically indistinguishable from strata adjacent to map area from which radiolarians Permian to Late Triassic in age have been extracted and identified by K.M. Reed (written commun., 1992).

Mc b Lower chert of the Cutaway area (Mississippian)-Rhythmically bedded dark- and medium-gray radiolarian ribbon chert with black silicious shale partings and thin interbeds.
Includes limestone and tabular bodies of barite (b).

Rhythmically bedded limestone and chert of the Lisburne
Group (Mississippian)-- Includes limestone beds that are
normally graded and have sole marks suggestive of turbidites.
Includes intervals of dark-gray and black shale and sooty black
shaly limestone (sh). Nodular-form bedded chert replaces
limestone and locally makes up to 50% of the section.

SYMBOLS

Strike and dip of beds

-T ₃₈	Inclined
 90	Vertical
—	Dip direction
Fold	d axis- showing direction of plunge; dashed where approximate
	Anticline
1	Anticline of syncline
Cor	ntact-dashed where approximate
Thr.	ust fault-dashed where approximate; teeth on upper plate
Fat	ult-dashed where approximate
Bot	undary of geologic mapping